Pascal Bouvry

List of Publications by Year
in descending order

379 papers	6,417 citations	136740 32 h-index	128067 60 g-index
407 all docs	407 docs citations	407 times ranked	5175 citing authors

#	Article	IF	Citations
1	GreenCloud: a packet-level simulator of energy-aware cloud computing data centers. Journal of Supercomputing, 2012, 62, 1263-1283.	2.4	402
2	A Survey on Mobile Crowdsensing Systems: Challenges, Solutions, and Opportunities. IEEE Communications Surveys and Tutorials, 2019, 21, 2419-2465.	24.8	334
3	Particle swarm optimization: Hybridization perspectives and experimental illustrations. Applied Mathematics and Computation, 2011, 217, 5208-5226.	1.4	222
4	Management of an academic HPC cluster: The UL experience. , 2014, , .		194
5	GreenCloud: A Packet-Level Simulator of Energy-Aware Cloud Computing Data Centers. , 2010, , .		184
6	Energy-efficient data replication in cloud computing datacenters. Cluster Computing, 2015, 18, 385-402.	3.5	184
7	DENS: data center energy-efficient network-aware scheduling. Cluster Computing, 2013, 16, 65-75.	3.5	173
8	An overview of energy efficiency techniques in cluster computing systems. Cluster Computing, 2013, 16, 3-15.	3.5	160
9	Improving Classical and Decentralized Differential Evolution With New Mutation Operator and Population Topologies. IEEE Transactions on Evolutionary Computation, 2011, 15, 67-98.	7.5	153
10	A survey on resource allocation in high performance distributed computing systems. Parallel Computing, 2013, 39, 709-736.	1.3	112
11	DENS: Data Center Energy-Efficient Network-Aware Scheduling. , 2010, , .		107
12	Cellular automata computations and secret key cryptography. Parallel Computing, 2004, 30, 753-766.	1.3	106
13	CrowdSenSim: a Simulation Platform for Mobile Crowdsensing in Realistic Urban Environments. IEEE Access, 2017, 5, 3490-3503.	2.6	92
14	A Survey of Evolutionary Computation for Resource Management of Processing in Cloud Computing [Review Article]. IEEE Computational Intelligence Magazine, 2015, 10, 53-67.	3.4	87
15	A cellular multi-objective genetic algorithm for optimal broadcasting strategy in metropolitan MANETs. Computer Communications, 2007, 30, 685-697.	3.1	79
16	Energy-Aware Scheduling on Multicore Heterogeneous Grid Computing Systems. Journal of Grid Computing, 2013, 11, 653-680.	2.5	76
17	Performance and Energy Efficiency Metrics for Communication Systems of Cloud Computing Data Centers. IEEE Transactions on Cloud Computing, 2017, 5, 738-750.	3.1	71
18	An Overview of MANETs Simulation. Electronic Notes in Theoretical Computer Science, 2006, 150, 81-101.	0.9	70

#	Article	IF	Citations
19	CA-DAG: Modeling Communication-Aware Applications for Scheduling in Cloud Computing. Journal of Grid Computing, 2016, 14, 23-39.	2.5	67
20	e-STAB: Energy-Efficient Scheduling for Cloud Computing Applications with Traffic Load Balancing. , 2013, , .		65
21	Intelligent Gaming for Mobile Crowd-Sensing Participants to Acquire Trustworthy Big Data in the Internet of Things. IEEE Access, 2017, 5, 22209-22223.	2.6	63
22	A Cost-Effective Distributed Framework for Data Collection in Cloud-Based Mobile Crowd Sensing Architectures. IEEE Transactions on Sustainable Computing, 2017, 2, 3-16.	2.2	62
23	Survey on Broadcast Algorithms for Mobile Ad Hoc Networks. ACM Computing Surveys, 2015, 48, 1-35.	16.1	61
24	Chaos-enhanced mobility models for multilevel swarms of UAVs. Swarm and Evolutionary Computation, 2018, 41, 36-48.	4.5	55
25	Internet of Unmanned Aerial Vehicles—A Multilayer Low-Altitude Airspace Model for Distributed UAV Traffic Management. Sensors, 2019, 19, 4779.	2.1	48
26	Defending Against Intrusion of Malicious UAVs with Networked UAV Defense Swarms. , 2017, , .		46
27	Collision Avoidance Effects on the Mobility of a UAV Swarm Using Chaotic Ant Colony with Model Predictive Control. Journal of Intelligent and Robotic Systems: Theory and Applications, 2019, 93, 227-243.	2.0	46
28	UAV fleet area coverage with network connectivity constraint. , 2013, , .		44
29	Solving very large instances of the scheduling of independent tasks problem on the GPU. Journal of Parallel and Distributed Computing, 2013, 73, 101-110.	2.7	43
30	Achieving super-linear performance in parallel multi-objective evolutionary algorithms by means of cooperative coevolution. Computers and Operations Research, 2013, 40, 1552-1563.	2.4	42
31	Multi-objective evolutionary algorithms for energy-aware scheduling on distributed computing systems. Applied Soft Computing Journal, 2014, 24, 432-446.	4.1	40
32	Connectivity Stability in Autonomous Multi-level UAV Swarms for Wide Area Monitoring. , 2015, , .		40
33	Online Bi-Objective Scheduling for IaaS Clouds Ensuring Quality of Service. Journal of Grid Computing, 2016, 14, 5-22.	2.5	39
34	The Rise of Drones in Internet of Things: A Survey on the Evolution, Prospects and Challenges of Unmanned Aerial Vehicles. IEEE Access, 2021, 9, 115466-115487.	2.6	39
35	Cloud Brokering: Current Practices and Upcoming Challenges. IEEE Cloud Computing, 2015, 2, 40-47.	5.3	38
36	Sociability-Driven Framework for Data Acquisition in Mobile Crowdsensing Over Fog Computing Platforms for Smart Cities. IEEE Transactions on Sustainable Computing, 2017, 2, 345-358.	2.2	38

#	Article	IF	Citations
37	Certicloud: A Novel TPM-based Approach to Ensure Cloud IaaS Security. , 2011, , .		37
38	Information dissemination in VANETs based upon a tree topology. Ad Hoc Networks, 2012, 10, 111-127.	3.4	36
39	A scalable parallel cooperative coevolutionary PSO algorithm for multi-objective optimization. Journal of Parallel and Distributed Computing, 2018, 112, 111-125.	2.7	35
40	A two-phase heuristic for the energy-efficient scheduling of independent tasks on computational grids. Cluster Computing, 2013, 16, 421-433.	3.5	34
41	Energy-efficient data replication in cloud computing datacenters. , 2013, , .		34
42	A survey of vehicular-based cooperative traffic information systems. , 2011, , .		33
43	Smart Probabilistic Fingerprinting for Indoor Localization over Fog Computing Platforms. , 2016, , .		33
44	Performance Evaluation and Energy Efficiency of High-Density HPC Platforms Based on Intel, AMD and ARM Processors. Lecture Notes in Computer Science, 2013, , 182-200.	1.0	31
45	Privacy and Security of Big Data in AI Systems: A Research and Standards Perspective. , 2019, , .		29
46	Amazon Elastic Compute Cloud (EC2) versus In-House HPC Platform: A Cost Analysis. IEEE Transactions on Cloud Computing, 2019, 7, 456-468.	3.1	29
47	Real-Time Virtual Network Function (VNF) Migration toward Low Network Latency in Cloud Environments. , 2017, , .		28
48	Profiling Performance of Application Partitioning for Wearable Devices in Mobile Cloud and Fog Computing. IEEE Access, 2019, 7, 12156-12166.	2.6	28
49	From Random Process to Chaotic Behavior in Swarms of UAVs. , 2016, , .		27
50	Cost analysis of smart lighting solutions for smart cities. , 2017, , .		27
51	Coevolutionary-based Mechanisms for Network Anomaly Detection. Mathematical Modelling and Algorithms, 2007, 6, 411-431.	0.5	25
52	Energy-aware fast scheduling heuristics in heterogeneous computing systems. , 2011, , .		25
53	Minimum Dependencies Energy-Efficient Scheduling in Data Centers. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 3561-3574.	4.0	25
54	UAV-UGV-UMV Multi-Swarms for Cooperative Surveillance. Frontiers in Robotics and AI, 2021, 8, 616950.	2.0	25

#	Article	IF	Citations
55	HPC Performance and Energy-Efficiency of Xen, KVM and VMware Hypervisors. , 2013, , .		24
56	HEROS: Energy-Efficient Load Balancing for Heterogeneous Data Centers. , 2015, , .		24
57	Sociability-Driven User Recruitment in Mobile Crowdsensing Internet of Things Platforms. , 2016, , .		24
58	Swarm-based counter UAV defense system. Discover Internet of Things, 2021, 1, 1.	3.3	24
59	Block cipher based on reversible cellular automata. New Generation Computing, 2005, 23, 245-258.	2.5	23
60	Anomaly detection in TCP/IP networks using immune systems paradigm. Computer Communications, 2007, 30, 740-749.	3.1	23
61	Transfer Graph Approach for Multimodal Transport Problems. Communications in Computer and Information Science, 2008, , 538-547.	0.4	23
62	A hierarchical approach for energy-efficient scheduling of large workloads in multicore distributed systems. Sustainable Computing: Informatics and Systems, 2014, 4, 252-261.	1.6	23
63	Tackling Large-Scale and Combinatorial Bi-Level Problems With a Genetic Programming Hyper-Heuristic. IEEE Transactions on Evolutionary Computation, 2020, 24, 44-56.	7.5	23
64	Distributed evolutionary optimization, in Manifold: Rosenbrock's function case study. Information Sciences, 2000, 122, 141-159.	4.0	22
65	A Vehicular Mobility Model Based on Real Traffic Counting Data. Lecture Notes in Computer Science, 2011, , 131-142.	1.0	22
66	A GP Hyper-Heuristic Approach for Generating TSP Heuristics. , 2019, , .		22
67	Reducing Overfitting and Improving Generalization in Training Convolutional Neural Network (CNN) under Limited Sample Sizes in Image Recognition. , 2020, , .		22
68	Internet shopping with price sensitive discounts. 4or, 2014, 12, 35-48.	1.0	21
69	Game-Theoretic Recruitment of Sensing Service Providers for Trustworthy Cloud-Centric Internet-of-Things (IoT) Applications. , 2016, , .		21
70	CA-DAG: Communication-Aware Directed Acyclic Graphs for Modeling Cloud Computing Applications. , 2013, , .		20
71	Using heterogeneous multilevel swarms of UAVs and high-level data fusion to support situation management in surveillance scenarios. , 2016, , .		20
72	Why energy matters? Profiling energy consumption of mobile crowdsensing dataÂcollection frameworks. Pervasive and Mobile Computing, 2018, 51, 193-208.	2.1	20

#	Article	IF	Citations
73	An Evaluation Model for Selecting Cloud Services from Commercially Available Cloud Providers. , 2015, , .		19
74	Load Balancing at the Edge of Chaos: How Self-Organized Criticality Can Lead to Energy-Efficient Computing. IEEE Transactions on Parallel and Distributed Systems, 2017, 28, 517-529.	4.0	19
75	Evolutionary game theoretical analysis of reputation-based packet forwarding in civilian mobile Ad Hoc networks. , 2009, , .		18
76	A platform for realistic online vehicular network management. , 2010, , .		18
77	A comparative study of rate monotonic schedulability tests. Journal of Supercomputing, 2012, 59, 1419-1430.	2.4	18
78	Designing robust volunteer-based evolutionary algorithms. Genetic Programming and Evolvable Machines, 2014, 15, 221-244.	1.5	18
79	Network-assisted offloading for mobile cloud applications. , 2015, , .		18
80	Coverage Optimization with Connectivity Preservation for UAV Swarms Applying Chaotic Dynamics. , 2017, , .		18
81	SHARC: Community-based partitioning for mobile ad hoc networks using neighborhood similarity. , 2010, , .		17
82	A Holistic Model for Resource Representation in Virtualized Cloud Computing Data Centers. , 2013, , .		17
83	Analysing the development of cooperation in MANETs using evolutionary game theory. Journal of Supercomputing, 2013, 63, 854-870.	2.4	17
84	Graph Cellular Automata approach to the Maximum Lifetime Coverage Problem in wireless sensor networks. Simulation, 2016, 92, 153-164.	1.1	17
85	Energy efficient data collection in opportunistic mobile crowdsensing architectures for smart cities. , 2017, , .		17
86	RapidRMSD: rapid determination of RMSDs corresponding to motions of flexible molecules. Bioinformatics, 2018, 34, 2757-2765.	1.8	17
87	A Cooperative Coevolutionary Approach to Maximise Surveillance Coverage of UAV Swarms. , 2020, , .		17
88	A Cellular Genetic Algorithm for scheduling applications and energy-aware communication optimization. , 2010, , .		16
89	Enhanced distance based broadcasting protocol with reduced energy consumption. , 2010, , .		16
90	On dynamic multi-objective optimization, classification and performance measures. , 2011, , .		16

#	Article	IF	Citations
91	Evaluation of dynamic communities in large-scale vehicular networks. , 2013, , .		16
92	A holistic model of the performance and the energy efficiency of hypervisors in a highâ€performance computing environment. Concurrency Computation Practice and Experience, 2014, 26, 2569-2590.	1.4	16
93	Target Tracking Optimization of UAV Swarms Based on Dual-Pheromone Clustering. , 2017, , .		16
94	Area exploration with a swarm of UAVs combining deterministic chaotic ant colony mobility with position MPC. , 2017, , .		16
95	Aspects and trends in realistic VANET simulations. , 2012, , .		15
96	Cellular genetic algorithms without additional parameters. Journal of Supercomputing, 2013, 63, 816-835.	2.4	15
97	High-Precision Design of Pedestrian Mobility for Smart City Simulators. , 2018, , .		15
98	Modelling the Evolution of Cooperative Behavior in Ad Hoc Networks using a Game Based Model. , 2007, , .		14
99	A self-adaptive cellular memetic algorithm for the DNA fragment assembly problem. , 2008, , .		14
100	Memory-Aware Green Scheduling on Multi-core Processors. , 2010, , .		14
101	Hopfield neural network for simultaneous job scheduling and data replication in grids. Future Generation Computer Systems, 2013, 29, 1885-1900.	4.9	14
102	Energy-aware online scheduling: Ensuring quality of service for IaaS clouds. , 2014, , .		14
103	UAV Fleet Mobility Model with Multiple Pheromones for Tracking Moving Observation Targets. Lecture Notes in Computer Science, 2016, , 332-347.	1.0	14
104	Function Optimization with Coevolutionary Algorithms. , 2003, , 13-22.		14
105	A Heuristic for Efficient Broadcasting in the Metropolitan Ad hoc Network. Lecture Notes in Computer Science, 2004, , 727-733.	1.0	13
106	Scalable and Energy-Efficient Scheduling Techniques for Large-Scale Systems. , 2011, , .		13
107	Solving the minimum M-dominating set problem by a continuous optimization approach based on DC programming and DCA. Journal of Combinatorial Optimization, 2012, 24, 397-412.	0.8	13
108	Scalable, low complexity, and fast greedy scheduling heuristics for highly heterogeneous distributed computing systems. Journal of Supercomputing, 2014, 67, 837-853.	2.4	13

#	Article	IF	Citations
109	Mitigating flash crowd effect using connected vehicle technology. Vehicular Communications, 2015, 2, 238-250.	2.7	13
110	Service Level Agreement Assurance between Cloud Services Providers and Cloud Customers. , 2016, , .		13
111	Profiling Energy Efficiency of Mobile Crowdsensing Data Collection Frameworks for Smart City Applications. , 2018, , .		13
112	Multi-Objective Scientific-Workflow Scheduling With Data Movement Awareness in Cloud. IEEE Access, 2019, 7, 177063-177081.	2.6	13
113	Immune anomaly detection enhanced with evolutionary paradigms. , 2006, , .		12
114	Multi-objective Cooperative Coevolutionary Evolutionary Algorithms for Continuous and Combinatorial Optimization. Studies in Computational Intelligence, 2011, , 49-74.	0.7	12
115	Optimisation of the enhanced distance based broadcasting protocol for MANETs. Journal of Supercomputing, 2012, 62, 1213-1240.	2.4	12
116	The sandpile scheduler. Cluster Computing, 2014, 17, 191-204.	3.5	12
117	Models for efficient data replication in cloud computing datacenters. , 2015, , .		12
118	Evolutionary Algorithm Parameter Tuning with Sensitivity Analysis. Lecture Notes in Computer Science, 2012, , 204-216.	1.0	12
119	A parallel hybrid genetic algorithm-simulated annealing for solving Q3AP on computational grid. , 2009, , .		11
120	Multi-objective robust static mapping of independent tasks on grids. , 2010, , .		11
121	A new parallel asynchronous cellular genetic algorithm for scheduling in grids. , 2010, , .		11
122	Assessing Performance of Internet of Things-Based Mobile Crowdsensing Systems for Sensing as a Service Applications in Smart Cities. , 2016, , .		11
123	On the Energy-Proportionality ofÂDataÂCenterÂNetworks. IEEE Transactions on Sustainable Computing, 2017, 2, 197-210.	2.2	11
124	Scheduling complete intrees on two uniform processors with communication delays. Information Processing Letters, 1996, 58, 255-263.	0.4	10
125	An overview of achieving energy efficiency in on-chip networks. International Journal of Communication Networks and Distributed Systems, 2010, 5, 444.	0.3	10
126	Solving Multi Objective Stochastic Programming Problems Using Differential Evolution. Lecture Notes in Computer Science, 2010, , 54-61.	1.0	10

#	Article	IF	Citations
127	A two-phase heuristic for the scheduling of independent tasks on computational grids. , 2011, , .		10
128	A Multi-objective GRASP Algorithm for Joint Optimization of Energy Consumption and Schedule Length of Precedence-Constrained Applications. , 2011, , .		10
129	Generation of realistic mobility for VANETs using genetic algorithms. , 2012, , .		10
130	A Parallel Hybrid Evolutionary Algorithm for the Optimization of Broker Virtual Machines Subletting in Cloud Systems. , 2013, , .		10
131	Adaptive energy efficient distributed VoIP load balancing in federated cloud infrastructure. , 2014, , .		10
132	HPC Performance and Energy-Efficiency of the OpenStack Cloud Middleware. , 2014, , .		10
133	Exact and heuristic approaches to solve the Internet shopping optimization problem with delivery costs. International Journal of Applied Mathematics and Computer Science, 2016, 26, 391-406.	1.5	10
134	Min_c: Heterogeneous concentration policy for energy-aware scheduling of jobs with resource contention. Programming and Computer Software, 2017, 43, 204-215.	0.5	10
135	Trustworthiness in IoT â€" A Standards Gap Analysis on Security, Data Protection and Privacy. , 2019, , .		10
136	CONSOLE: intruder detection using a UAV swarm and security rings. Swarm Intelligence, 2021, 15, 205-235.	1.3	10
137	Towards connectivity improvement in VANETs using bypass links. , 2009, , .		9
138	Energy-efficient high-performance parallel andÂdistributed computing. Journal of Supercomputing, 2012, 60, 163-164.	2.4	9
139	Green flexible opportunistic computing with task consolidation and virtualization. Cluster Computing, 2013, 16, 545-557.	3.5	9
140	Optimising small-world properties in VANETs: Centralised and distributed overlay approaches. Applied Soft Computing Journal, 2014, 21, 637-646.	4.1	9
141	Amazon Elastic Compute Cloud (EC2) vs. In-House HPC Platform: A Cost Analysis. , 2016, , .		9
142	A Multilayer Low-Altitude Airspace Model for UAV Traffic Management. , 2019, , .		9
143	Cellular Programming and Symmetric Key Cryptography Systems. Lecture Notes in Computer Science, 2003, , 1369-1381.	1.0	8
144	Management of Overlay Networks: A Survey. , 2009, , .		8

#	Article	IF	Citations
145	A classification of dynamic multi-objective optimization problems. , 2011, , .		8
146	DIRECT RECIPROCITY-BASED COOPERATION IN MOBILE AD HOC NETWORKS. International Journal of Foundations of Computer Science, 2012, 23, 501-521.	0.8	8
147	DESIGN OPTIMIZATION OF INDUCTION MOTORS WITH DIFFERENTIAL EVOLUTION ALGORITHMS WITH AN APPLICATION IN TEXTILE SPINNING. Applied Artificial Intelligence, 2012, 26, 809-831.	2.0	8
148	Convergence analysis of evolutionary algorithms in the presence of crash-faults and cheaters. Computers and Mathematics With Applications, 2012, 64, 3805-3819.	1.4	8
149	Finding scalable configurations for AEDB broadcasting protocol using multi-objective evolutionary algorithms. Cluster Computing, 2013, 16, 527-544.	3.5	8
150	Computational intelligence for cloud management current trends and opportunities. , 2013, , .		8
151	Profiling cloud applications with hardware performance counters. , 2014, , .		8
152	Bi-objective online scheduling with quality of service for IaaS clouds. , 2014, , .		8
153	Cloud service providers ranking based on service delivery and consumer experience. , 2015, , .		8
154	UAV Multilevel Swarms for Situation Management. , 2016, , .		8
155	Bayesian optimization approach of general bi-level problems. , 2017, , .		8
156	The Virtual Savant: Automatic generation of parallel solvers. Information Sciences, 2018, 432, 411-430.	4.0	8
157	A competitive Predatorâ€"Prey approach to enhance surveillance by UAV swarms. Applied Soft Computing Journal, 2021, 111, 107701.	4.1	8
158	Green Data Centers. , 0, , 159-196.		8
159	Differential Evolution Algorithms with Cellular Populations. , 2010, , 320-330.		8
160	Evolutionary Algorithms Based on Game Theory and Cellular Automata with Coalitions. Intelligent Systems Reference Library, 2013, , 481-503.	1.0	8
161	From communities to protein complexes: A local community detection algorithm on PPI networks. PLoS ONE, 2022, 17, e0260484.	1.1	8
162	Trusted spanning trees for Delay Tolerant Mobile Ad Hoc Networks. , 2008, , .		7

#	Article	IF	Citations
163	The Cost of Altruistic Punishment in Indirect Reciprocity-based Cooperation in Mobile Ad Hoc Networks. , 2010, , .		7
164	Adaptive Neighborhoods for Cellular Genetic Algorithms. , 2011, , .		7
165	Generation of realistic traces for vehicular mobility simulations. , 2012, , .		7
166	On the energy optimization for precedence constrained applications using local search algorithms. , 2012, , .		7
167	Accounting for load variation in energy-efficient data centers. , 2013, , .		7
168	VoIP service model for multi-objective scheduling in cloud infrastructure. International Journal of Metaheuristics, 2015, 4, 185.	0.1	7
169	VoIP Traffic Modelling Using Gaussian Mixture Models, Gaussian Processes and Interactive Particle Algorithms. , 2015, , .		7
170	Collaborative Data Delivery for Smart City-Oriented Mobile Crowdsensing Systems. , 2018, , .		7
171	Bayesian optimisation to select RÃ¶ssler system parameters used in Chaotic Ant Colony Optimisation for Coverage. Journal of Computational Science, 2020, 41, 101047.	1.5	7
172	Competitive Evolution of a UAV Swarm for Improving Intruder Detection Rates. , 2020, , .		7
173	Blackbone2, an efficient deterministic algorithm for creating 2-connected m-dominating set-based backbones in ad hoc networks. , 2009, , .		7
174	ANDES: Evaluating mapping strategies with synthetic programs. Journal of Systems Architecture, 1996, 42, 351-365.	2.5	6
175	Optimal design of ad hoc injection networks by using genetic algorithms. , 2007, , .		6
176	Coevolutionary genetic algorithms for Ad hoc injection networks design optimization. , 2007, , .		6
177	Novel efficient asynchronous cooperative co-evolutionary multi-objective algorithms. , 2012, , .		6
178	PARALLEL HYBRID GENETIC ALGORITHMS FOR SOLVING Q3AP ON COMPUTATIONAL GRID. International Journal of Foundations of Computer Science, 2012, 23, 483-500.	0.8	6
179	Energy-aware VM Allocation on an Opportunistic Cloud Infrastructure. , 2013, , .		6
180	Biobjective VoIP Service Management in Cloud Infrastructure. Scientific Programming, 2016, 2016, 1-14.	0.5	6

#	Article	IF	Citations
181	Virtual Desktop Infrastructures: Architecture, survey and green aspects proof of concept. , 2016, , .		6
182	Reconciling task assignment and scheduling in mobile edge clouds. , 2016, , .		6
183	Law as a service (LaaS): Enabling legal protection over a blockchain network. , 2017, , .		6
184	PRESENCE: Toward a novel approach for performance evaluation of mobile cloud SaaS Web Services. , 2018, , .		6
185	Local memory boosts label propagation for community detection. Applied Network Science, 2019, 4, .	0.8	6
186	Crowdsensed Data Learning-Driven Prediction of Local Businesses Attractiveness in Smart Cities. , 2019, , .		6
187	Emerging Inter-Swarm Collaboration for Surveillance Using Pheromones and Evolutionary Techniques. Sensors, 2020, 20, 2566.	2.1	6
188	Optimizing the Performance of an Unpredictable UAV Swarm for Intruder Detection. Communications in Computer and Information Science, 2020, , 37-48.	0.4	6
189	Automating the Design of Efficient Distributed Behaviours for a Swarm of UAVs. , 2020, , .		6
190	Optimization of Carsharing Fleet Placement in Round-Trip Carsharing Service. Applied Sciences (Switzerland), 2021, 11, 11393.	1.3	6
191	OPTIMAL INTERCONNECTION OF AD HOC INJECTION NETWORKS. Journal of Interconnection Networks, 2008, 09, 277-297.	0.6	5
192	A New Parallel Asynchronous Cellular Genetic Algorithm for de Novo Genomic Sequencing. , 2009, , .		5
193	Behavior-Based Proactive Detection of Unknown Malicious Codes. , 2009, , .		5
194	Distributed energy self-adaptation in ad hoc networks. , 2010, , .		5
195	On the Resilience of [Distributed] EAs against Cheaters in Global Computing Platforms. , 2011, , .		5
196	Energy-Efficient Scheduling on Milliclusters with Performance Constraints. , 2011, , .		5
197	Optimization and Performance Analysis of the AEDB Broadcasting Algorithm. , 2011, , .		5
198	Designing a Self-Organized Approach for Scheduling Bag-of-Tasks. , 2012, , .		5

#	Article	IF	Citations
199	A multi-objective approach for high quality tree-based backbones in mobile ad hoc networks. International Journal of Space-Based and Situated Computing, 2012, 2, 83.	0.2	5
200	Study of different small-world topology generation mechanisms for Genetic Algorithms. , 2012, , .		5
201	A Parallel Multi-objective Local Search for AEDB Protocol Tuning. , 2013, , .		5
202	Detection of stable mobile communities in vehicular Ad Hoc Networks. , 2014, , .		5
203	Solving the three dimensional quadratic assignment problem on a computational grid. Cluster Computing, 2014, 17, 205-217.	3.5	5
204	Hybrid mobility model with pheromones for UAV detection task. , 2016, , .		5
205	Energy efficiency of TCP: An analytical model and its application to reduce energy consumption of the most diffused transport protocol. International Journal of Communication Systems, 2017, 30, e2934.	1.6	5
206	ASIMUT project. , 2017, , .		5
207	A new Co-evolutionary Algorithm Based on Constraint Decomposition. , 2017, , .		5
208	On Verifying and Assuring the Cloud SLA by Evaluating the Performance of SaaS Web Services Across Multi-cloud Providers. , 2018, , .		5
209	Configurable cost-quality optimization of cloud-based VoIP. Journal of Parallel and Distributed Computing, 2019, 133, 319-336.	2.7	5
210	Link Definition Ameliorating Community Detection in Collaboration Networks. Frontiers in Big Data, 2019, 2, 22.	1.8	5
211	A Memory-Based Label Propagation Algorithm for Community Detection. Studies in Computational Intelligence, 2019, , 171-182.	0.7	5
212	Validating a Peer-to-Peer Evolutionary Algorithm. Lecture Notes in Computer Science, 2012, , 436-445.	1.0	5
213	Impact of Voltage Levels Number for Energy-Aware Bi-objective DAG Scheduling for Multi-processors Systems. Communications in Computer and Information Science, 2012, , 70-80.	0.4	5
214	JShadObf: A JavaScript Obfuscator Based on Multi-Objective Optimization Algorithms. Lecture Notes in Computer Science, 2013, , 336-349.	1.0	5
215	Satellite Payload Reconfiguration Optimisation: An ILP Model. Lecture Notes in Computer Science, 2012, , 311-320.	1.0	5
216	Evalix: Classification and Prediction of Job Resource Consumption on HPC Platforms. Lecture Notes in Computer Science, 2017, , 102-122.	1.0	5

#	Article	IF	Citations
217	Evolution of cooperation in ad hoc networks under game theoretic model. , 2006, , .		4
218	A combined DCA: GA for constructing highly nonlinear balanced boolean functions in cryptography. Journal of Global Optimization, 2010, 47, 597-613.	1.1	4
219	Interval-based initialization method for permutation-based problems. , 2010, , .		4
220	Green Flexible Opportunistic Computing with Virtualization. , 2011, , .		4
221	Nature-Inspired Evaluation of Data Classes for Trust Management in MANETs. , 2011, , .		4
222	On the generation of stable communities of users for dynamic mobile ad hoc social networks. , 2011, , .		4
223	Sensitivity analysis for a realistic vehicular mobility model. , 2011, , .		4
224	Simulating communication processes in energy-efficient cloud computing systems. , 2012, , .		4
225	Savant: Automatic parallelization of a scheduling heuristic with machine learning. , 2013, , .		4
226	NC-CELL: Network coding-based content distribution in cellular networks for cloud applications. , 2014, , .		4
227	A Comparison Between Memetic Algorithm and Seeded Genetic Algorithm for Multi-objective Independent Task Scheduling on Heterogeneous Machines. Studies in Computational Intelligence, 2015, , 377-389.	0.7	4
228	Extreme Solutions NSGA-III (E-NSGA-III) for Scientific Workflow Scheduling on Cloud. , 2018, , .		4
229	Community Detection in Complex Networks: A Survey on Local Approaches. Lecture Notes in Computer Science, 2021, , 757-767.	1.0	4
230	Dafo, a Multi-agent Framework for Decomposable Functions Optimization. Lecture Notes in Computer Science, 2005, , 626-632.	1.0	4
231	Soft Computing Techniques for Intrusion Detection of SQL-Based Attacks. Lecture Notes in Computer Science, 2010, , 33-42.	1.0	4
232	Efficient Data Sharing over Large-Scale Distributed Communities. Studies in Computational Intelligence, 2011, , 149-164.	0.7	4
233	Automated design of efficient swarming behaviours. , 2020, , .		4
234	hLCGA: A Hybrid Competitive Coevolutionary Genetic Algorithm. , 2006, , .		3

#	Article	IF	Citations
235	Performance of a Strategy Based Packets Forwarding in Ad Hoc Networks. , 2008, , .		3
236	Overcoming partitioning in large ad hoc networks using genetic algorithms. , 2009, , .		3
237	Multi-objective Optimization for Information Sharing in Vehicular Ad Hoc Networks. Communications in Computer and Information Science, 2009, , 58-70.	0.4	3
238	Management challenges for emerging networks and services. , 2009, , .		3
239	On quantifying the quality of CDS-based virtual backbones in mobile ad hoc networks. , 2010, , .		3
240	Trust management for collusion prevention in mobile ad hoc networks. , 2010, , .		3
241	Optimal design of induction motor for a spinning machine using population based metaheuristics. , 2010, , .		3
242	An improved genetic algorithm for efficient scheduling on distributed memory parallel systems. , 2010, , .		3
243	A Review on Task Performance Prediction in Multi-core Based Systems. , 2011, , .		3
244	Performance Evaluation of Personal and General Data Classes for Trust Management in MANETs. Journal of Information Processing, 2011, 19, 364-377.	0.3	3
245	Social relevance of topological communities in ad hoc communication networks. , 2011, , .		3
246	Minimising longest path length in communication satellite payloads via metaheuristics. , 2013, , .		3
247	An Overlay Approach for Optimising Small-World Properties in VANETs. Lecture Notes in Computer Science, 2013, , 32-41.	1.0	3
248	Performance Analysis of Cloud Environments on Top of Energy-Efficient Platforms Featuring Low Power Processors. , 2014, , .		3
249	Emerging Paradigms and Areas for Expansion. IEEE Cloud Computing, 2014, 1, 58-61.	5.3	3
250	Performance Evaluation of an IaaS Opportunistic Cloud Computing. , 2014, , .		3
251	Performance Metrics for Data Center Communication Systems. , 2015, , .		3
252	Adopting trust and assurance as indicators for the reassignment of responsibilities in multi-agent systems. Knowledge Engineering Review, 2015, 30, 187-200.	2.1	3

#	Article	IF	Citations
253	Finding a robust configuration for the AEDB information dissemination protocol for mobile ad hoc networks. Applied Soft Computing Journal, 2015, 32, 494-508.	4.1	3
254	Using Virtual Desktop Infrastructure to Improve Power Efficiency in Grinfy System. , 2016, , .		3
255	A parallel cooperative coevolutionary SMPSO algorithm for multi-objective optimization. , 2016, , .		3
256	Load-Aware Strategies for Cloud-Based VoIP Optimization with VM Startup Prediction. , 2017, , .		3
257	PRESENCE: Monitoring and Modelling the Performance Metrics of Mobile Cloud SaaS Web Services. Mobile Information Systems, 2018, 2018, 1-14.	0.4	3
258	PRESEnCE: Performance Metrics Models for Cloud SaaS Web Services. , 2018, , .		3
259	Clustering approaches for visual knowledge exploration in molecular interaction networks. BMC Bioinformatics, 2018, 19, 308.	1.2	3
260	Toward real-world vehicle placement optimization in round-trip carsharing. , 2019, , .		3
261	Performance Analysis of Distributed and Scalable Deep Learning. , 2020, , .		3
262	A Q-Learning Based Hyper-Heuristic for Generating Efficient UAV Swarming Behaviours. Lecture Notes in Computer Science, 2021, , 768-781.	1.0	3
263	A Multi-Agent Organizational Framework for Coevolutionary Optimization. Lecture Notes in Computer Science, 2010, , 199-224.	1.0	3
264	Oversized Populations and Cooperative Selection: Dealing with Massive Resources in Parallel Infrastructures. Lecture Notes in Computer Science, 2013, , 444-449.	1.0	3
265	Cooperative Selection: Improving Tournament Selection via Altruism. Lecture Notes in Computer Science, 2014, , 85-96.	1.0	3
266	Metaheuristics for the Virtual Machine Mapping Problem in Clouds. Informatica, 2015, 26, 111-134.	1.5	3
267	Energy Efficiency and High-Performance Computing. , 0, , 197-224.		3
268	Evolution of Strategy Driven Behavior in Ad Hoc Networks Using a Genetic Algorithm. , 2007, , .		2
269	UrbiSim: A framework for simulation of ad hoc networks in realistic urban environment. , 2009, , .		2
270	A multidimensional robust greedy algorithm for resource path finding in large-scale distributed networks. , 2010, , .		2

#	Article	IF	Citations
271	Load balancing for sustainable ICT. , 2011, , .		2
272	Enhancing the broadcast process in mobile ad hoc networks using community knowledge. , 2011, , .		2
273	On the improvement of the enhanced distance-based broadcasting algorithm. International Journal of Communication Networks and Distributed Systems, 2012, 9, 225.	0.3	2
274	Hash function generation by means of Gene Expression Programming. Annales UMCS: Informatica, 2012, 12, .	0.2	2
275	Green networks. Journal of Supercomputing, 2012, 62, 1091-1092.	2.4	2
276	The Necessity for Strong Reciprocators in Mobile Ad Hoc Networks. , 2012, , .		2
277	Comparing the Performance and Power Usage of GPU and ARM Clusters for Map-Reduce. , 2013, , .		2
278	Task Scheduling in Heterogeneous Computing Systems Using a MicroGA. , 2013, , .		2
279	Trust Based Interdependency Weighting for On-Line Risk Monitoring in Interdependent Critical Infrastructures. International Journal of Secure Software Engineering, 2013, 4, 47-69.	0.4	2
280	Comparison of Multi-objective Optimization Algorithms for the JShadObf JavaScript Obfuscator. , 2014, , .		2
281	AEDB protocol tuning with a fast efficient parallel multi-objective local search. International Journal of Ad Hoc and Ubiquitous Computing, 2014, 17, 144.	0.3	2
282	ParaMASK: A Multi-Agent System for the efficient and dynamic adaptation of HPC workloads. , 2014, , .		2
283	Optimizing communication satellites payload configuration with exact approaches. Engineering Optimization, 2015, 47, 1709-1734.	1.5	2
284	On Service Level Agreement Assurance in Cloud Computing Data Centers. , 2016, , .		2
285	A transport layer approach to improve energy efficiency. , 2016, , .		2
286	Chaotic Traversal (CHAT): Very Large Graphs Traversal Using Chaotic Dynamics. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1750215.	0.7	2
287	Self-Regulated Multi-criteria Decision Analysis: An Autonomous Brokerage-Based Approach for Service Provider Ranking in the Cloud. , 2017, , .		2
288	A new modeling approach for the biobjective exact optimization of satellite payload configuration. International Transactions in Operational Research, 2019, 26, 180-199.	1.8	2

#	Article	IF	Citations
289	A vertex-similarity clustering algorithm for community detection. Journal of Information and Telecommunication, 2020, 4, 36-50.	2.2	2
290	Comparing Elementary Cellular Automata Classifications with a Convolutional Neural Network. , 2021, , .		2
291	Autonomous Flight of Unmanned Aerial Vehicles Using Evolutionary Algorithms. Communications in Computer and Information Science, 2020, , 337-352.	0.4	2
292	Local Community Detection Algorithm with Self-defining Source Nodes. Studies in Computational Intelligence, 2021, , 200-210.	0.7	2
293	Deskilling HPL. Lecture Notes in Computer Science, 2010, , 102-114.	1.0	2
294	Analysis of the Data Flow in the Newscast Protocol for Possible Vulnerabilities. Communications in Computer and Information Science, 2014, , 89-99.	0.4	2
295	Hybridisation Schemes for Communication Satellite Payload Configuration Optimisation. Lecture Notes in Computer Science, 2014, , 565-576.	1.0	2
296	Management Challenges for Emerging Wireless Networks. , 2011, , 3-34.		2
297	How to Efficiently Solve Internet Shopping Optimization Problem with Price Sensitive Discounts?. , 2014, , .		2
298	Weak Key Analysis and Micro-controller Implementation of CA Stream Ciphers. Lecture Notes in Computer Science, 2005, , 910-915.	1.0	2
299	Support Tool for a Bayesian Network Based Critical Infrastructure Risk Model. Studies in Computational Intelligence, 2014, , 53-75.	0.7	2
300	Visualizing the Template of a Chaotic Attractor. Lecture Notes in Computer Science, 2018, , 106-119.	1.0	2
301	SuSy-EnGaD: Surveillance System Enhanced by Games of Drones. Drones, 2022, 6, 13.	2.7	2
302	Evolutionary Learning of Private Equity Recommitment Strategies. , 2021, , .		2
303	Denial of service detection and analysis using idiotypic networks paradigm. , 2008, , .		1
304	Interval island model initialization for permutation-based problems. , 2009, , .		1
305	Multiobjective classification with moGEP. , 2009, , .		1
306	Token Traversal Strategies of a Distributed Spanning Forest Algorithm in Mobile Ad Hoc - Delay Tolerant Networks. Communications in Computer and Information Science, 2009, , 96-109.	0.4	1

#	Article	IF	Citations
307	A cooperative tree-based hybrid GA-B&B approach for solving challenging permutation-based problems.. , 2011, , .		1
308	Using data-flow analysis in MAS for power-aware HPC runs. , 2013, , .		1
309	Graph-Based Cellular Automata Approach to Maximum Lifetime Coverage Problem in Wireless Sensor Networks. , 2014, , .		1
310	Visualization and classification of protein secondary structures using Self-Organizing Maps. , 2014, , .		1
311	Multi-objective evolutionary approach for the satellite payload power optimization problem. , 2014, , .		1
312	Energy-Efficient Computation Offloading for Wearable Devices and Smartphones in Mobile Cloud Computing. , 2014, , .		1
313	Distributed Cellular Evolutionary Algorithms in a Byzantine Environment. , 2015, , .		1
314	A new model for VMMP dealing with execution time uncertainty in a multi-clouds system. , 2015, , .		1
315	Computational Intelligence for Cloud Computing [Guest Editorial]. IEEE Computational Intelligence Magazine, 2015, 10, 18-51.	3.4	1
316	Service Performance Pattern Analysis and Prediction of Commercially Available Cloud Providers. , 2016, , .		1
317	A Competitive Approach for Bi-Level Co-Evolution. , 2018, , .		1
318	Crowdsensing architectures for smart cities. , 2020, , 527-542.		1
319	Improving Pheromone Communication for UAV Swarm Mobility Management. Lecture Notes in Computer Science, 2021, , 228-240.	1.0	1
320	Energy Efficiency in HPC Data Centers: Latest Advances to Build the Path to Exascale. , 2015, , 81-107.		1
321	Energy Savings on a Cloud-Based Opportunistic Infrastructure. Lecture Notes in Computer Science, 2014, , 366-378.	1.0	1
322	Exploiting theÂHard-Wired Vulnerabilities ofÂNewscast viaÂConnectivity-Splitting Attack. Lecture Notes in Computer Science, 2014, , 152-165.	1.0	1
323	Application of Cellular Automata in Symmetric Key Cryptography. Communications in Computer and Information Science, 2010, , 154-163.	0.4	1
324	Efficient Hierarchical Task Scheduling on GRIDS Accounting for Computation and Communications. Studies in Computational Intelligence, 2011, , 25-47.	0.7	1

#	Article	IF	Citations
325	Architectures and Information Signaling Techniques for Cognitive Networks. Advances in Wireless Technologies and Telecommunication Book Series, 2013, , 286-300.	0.3	1
326	Workflow Scheduling on Virtualized Servers. Studies in Computational Intelligence, 2014, , 247-254.	0.7	1
327	Optimizing AEDB Broadcasting Protocol with Parallel Multi-objective Cooperative Coevolutionary NSGA-II. Lecture Notes in Computer Science, 2014, , 39-50.	1.0	1
328	Cloud Brokering with Bundles: Multi-objective Optimization of Services Selection. Foundations of Computing and Decision Sciences, 2019, 44, 407-426.	0.5	1
329	Collective Behaviour of Cellular Automata Rules and Symmetric Key Cryptography. , 2006, , 131-140.		0
330	Adaptive and dynamic intrusion detection by means of idiotypic networks paradigm. , 2008, , .		0
331	An approach to intrusion detection by means of idiotypic networks paradigm. , 2008, , .		0
332	An Efficient Hybrid P2P Approach for Non-redundant Tree Exploration in B&#x00026;B Algorithms. , 2008, , .		0
333	Solving the Perceptron Problem by deterministic optimization approach based on DC programming and DCA. , 2009, , .		0
334	A study of token traversal strategies on tree-based backbones for mobile ad hoc - delay tolerant networks. , 2009, , .		0
335	P2P computing for large tree exploration-based exact optimisation. International Journal of Grid and Utility Computing, 2009, 1, 252.	0.1	0
336	Evolutionary Algorithms for Solving Stochastic Programming Problems. , 2010, , .		0
337	Heuristics-based nominal channels allocation in cellular networks. , 2010, , .		0
338	HPCS 2011 panel session: Graphical processing units (GPUs): Opportunities and challenges. , 2011, , .		0
339	NIDISC Introduction. , 2011, , .		0
340	NIDISC Introduction. , 2012, , .		0
341	Welcome message from the VTP 2012 Chairs. , 2012, , .		0
342	HPCS 2012 panels: Panel I: Energy efficient systems in next generation high performance data and compute centers. , 2012, , .		0

#	Article	IF	Citations
343	Special issue on evolutionary computing and complex systems. Soft Computing, 2013, 17, 909-912.	2.1	0
344	Expected running time of parallel evolutionary algorithms on unimodal pseudo-boolean functions over small-world networks. , 2013, , .		0
345	Design of an energy efficiency model and architecture for cloud management using prediction models. , 2013, , .		0
346	Vehicular mobility model optimization using cooperative coevolutionary genetic algorithms. , 2013, , .		0
347	NIDISC Introduction. , 2013, , .		0
348	NIDISC Introduction and Committees. , 2014, , .		0
349	NIDISC Introduction and Committees. , 2015, , .		0
350	NK Landscape Instances Mimicking the Protein Inverse Folding Problem Towards Future Benchmarks. , 2015, , .		0
351	Trading Off Resource Utilization and Task Migrations in Dynamic Load-balancing. , 2015, , .		0
352	Comparisons of Heat Map and IFL Technique to Evaluate the Performance of Commercially Available Cloud Providers. , 2016, , .		0
353	Tackling the IFP Problem with the Preference-Based Genetic Algorithm. , 2016, , .		0
354	Reducing Efficiency of Connectivity-Splitting Attack on Newscast via Limited Gossip. Lecture Notes in Computer Science, 2016, , 299-314.	1.0	0
355	A Novel Co-evolutionary Approach for Constrained Genetic Algorithms. , 2016, , .		0
356	Network coding-based content distribution in cellular access networks. , 2016, , .		0
357	Elliptic Curves Discrete Logarithm Problem over a Finite Prime Field Fp and p-adic Approximations. , 2018, , .		0
358	Evolutionary Algorithms for the Inverse Protein Folding Problem. , 2018, , 999-1023.		0
359	Lightweight Key Agreement for Wireless Sensor Networks. , 2018, , .		0
360	On Fairness Optimization for Cloud Radio Access Networks. , 2019, , .		0

#	Article	IF	Citations
361	Protection of Personal Data in High Performance Computing Platform for Scientific Research Purposes. Lecture Notes in Computer Science, 2021, , 123-142.	1.0	0
362	Optimising pheromone communication in a UAV swarm. , 2021, , .		0
363	A Context-Aware Broadcast Protocol for Mobile Wireless Networks. Communications in Computer and Information Science, 2008, , 507-519.	0.4	0
364	Weakness Analysis of a Key Stream Generator Based on Cellular Automata. Lecture Notes in Computer Science, 2010, , 547-552.	1.0	0
365	Perspectives of Selfish Behaviour in Mobile Ad Hoc Networks. Lecture Notes in Computer Science, 2011, , 297-304.	1.0	0
366	The Application of Evolutionary Heuristics for Solving Soft Security Issues in MANETs. Studies in Computational Intelligence, 2012, , 97-114.	0.7	0
367	Solving Soft Security Problem in MANETs Using an Evolutionary Approach. Lecture Notes in Computer Science, 2012, , 33-44.	1.0	0
368	A Signature Scheme for Distributed Executions Based on Control Flow Analysis. Lecture Notes in Computer Science, 2012, , 85-102.	1.0	0
369	Social Network Analysis Techniques for Social-Oriented Mobile Communication Networks. , 2012, , 51-80.		0
370	CERTICLOUD, une plate-forme Cloud IaaS sécurisée. Techniques Et Sciences Informatiques, 2012, 31, 1121-1152.	0.0	0
371	Building Platform as a Service for High Performance Computing over an Opportunistic Cloud Computing. Lecture Notes in Computer Science, 2013, , 380-389.	1.0	0
372	Dependency Analysis for Critical Infrastructure Security Modelling: A Case Study within the Grid’5000 Project. Lecture Notes in Computer Science, 2013, , 269-287.	1.0	0
373	Applications of Nature Inspired Algorithms for Electrical Engineering Optimization Problems. Intelligent Systems Reference Library, 2013, , 991-1024.	1.0	0
374	Challenges on Probabilistic Modeling for Evolving Networks. Studies in Computational Intelligence, 2014, , 77-93.	0.7	0
375	A Parallel Multi-Objective Cooperative Coevolutionary Algorithm for Optimising Small-World Properties in VANETs. CLEI Electronic Journal, 2014, 17, .	0.2	0
376	Evolutionary Algorithms for the Inverse Protein Folding Problem. , 2018, , 1-25.		0
377	Automatic Software Tuning of Parallel Programs for Energy-Aware Executions. Lecture Notes in Computer Science, 2020, , 144-155.	1.0	0
378	Innovation Networks from Inter-organizational Research Collaborations. Studies in Computational Intelligence, 2021, , 361-375.	0.7	0

#	Article	IF	Citations
379	NGAP. , 2020, , .		0